AGROZ GROUP

Sustainable Agriculture & Food

From Farm to Fork Within Hours

Progress Report – November 2021 | Ver.6.0

CONTENT

Impact of Climate Change

Urbanisation & Standard of Living

Traditional farming is destroying the earth ecosystem

Impact of Covid

1

JOBS AND INCOME: LOSS
Jobs: 2.4 million loss caused by COVID-19 (May 2020)
Household income: RM95 billion

2

AGRICULTURE SECTOR: DECREASE LABOUR FORCE
GDP contribution: 8.6% (2017) and 7.5% (2018)
Decreasing labor: 12.47% (2015) to 10.96% in (2019)
Issues: labor shortages in agriculture, mobility restriction and loss of confidence in product quality

3

FOOD IMPORTS: INCREASING
An average growth of 6.5% per year RM30 billion (2010) increased to RM50 billion (2019)
Realign country's agriculture sector by optimising land and prioritise planting based on demand

4

FOOD SECURITY: HIGH ALERT
World population growth: 7.0 billion to 9.1 billion by 2050
Food supply demand to increase by 70%

5

FOOD SAFETY: ARISING CONCERNS
Use of chemicals and pesticides, level of hygiene in handling, origin traceability
Lack of confidence among consumers

6

TECHNOLOGY: POOR EXPLOITATION
Global smart farming market: USD23.4 billion by 2025
5G in Malaysia: Potential contribution of RM12.7 billion to GDP (2021-2025)

What is Vertical Farming?

Saving the Earth Resources

24/7
growing, shielded from the elements

No
pesticides, fertilizers or herbicides

70%
less water than traditional growing

~Zero
water pollution

Efficient & Effective Utilisation of Resources

Vertical farms typically employ one of three soil-less growing methods, which can also be closed loop (zero-waste) systems:

Hydroponics
Plant roots are submerged in a nutrient solution

70%
less water
than conventional farms

Aeroponics
Nutrient mist is sprayed directly onto plants' dangling roots

95%
less water
than conventional farms

Aquaponics
Fish in indoor ponds release nutrient-rich waste into water, feeding plants via hydroponics

Zero
waste
Plant-filtered wastewater is recycled back to fish ponds

Agroz Addresses 10 of 17 of SDGs

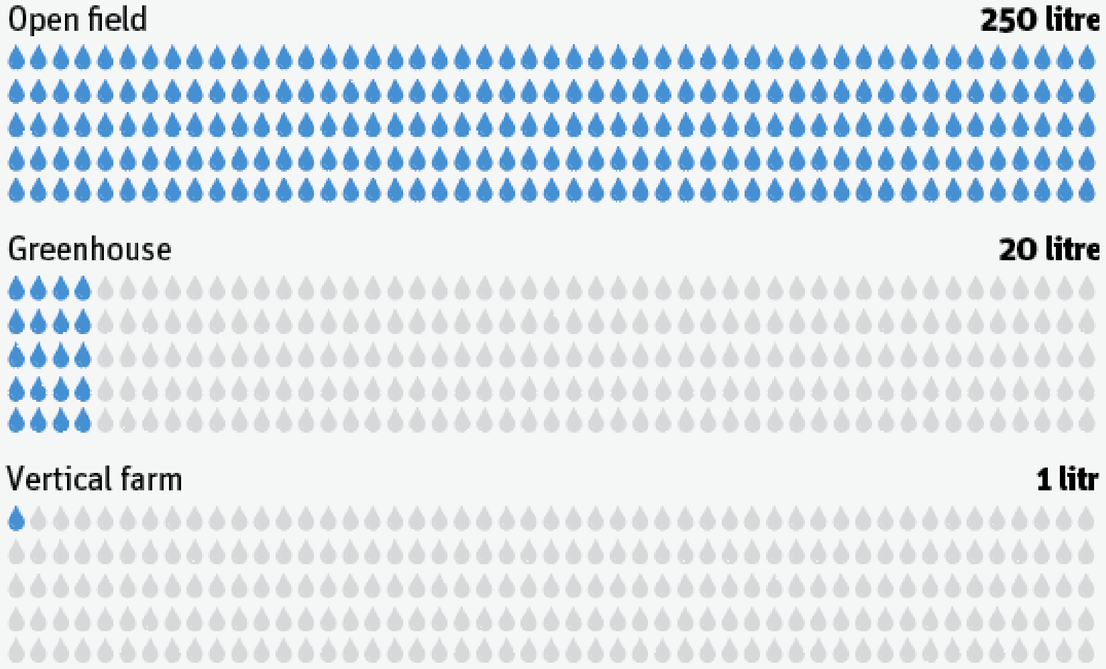
Yield & Potential of Vertical Farming

agroz
Innovative Smart Agriculture

The yield and potential of vertical farming

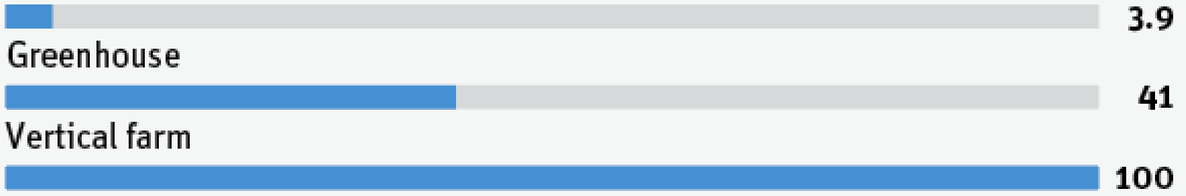
The market opportunity for vertical farms is huge. Barclays Research analysts estimate the size of the global fruit & vegetable market is roughly $1.2tn (£800bn), and calculate that the addressable produce market for vertical farms is closer to $700bn (£513bn), leading to an approximately $50bn (£36.7bn) market opportunity. Plus, vertical farming boasts some environmental benefits, as produce requires less water and space to grow

Water used to grow 1kg of lettuce



Source: Plant Lab analysis of academic literature

Lettuce yield per square metre of ground space *(kg)*



Source: Plant Lab analysis of academic literature

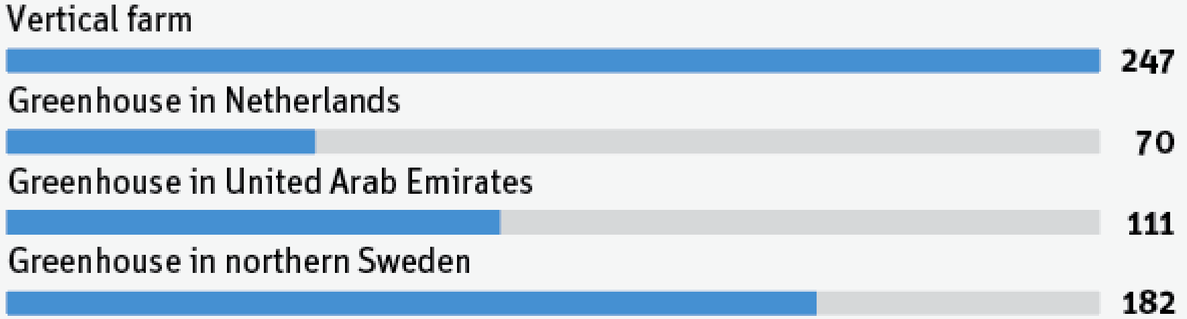
The market opportunities for vertical farming

£2.29bn
What the global vertical farming market was worth in 2019

£12.3bn
What it could be worth by 2027 *Source: Verified Market Research*

£513bn
Addressable produce market for vertical farms
Source: Barclays Research

Purchased energy use to produce 1kg of lettuce *(kilowatt hours)*



Source: Graamans et al, Delft University of Technology/Wageningen University

Overview

Agroz Indoor Vertical Farms (Plant Factory)

Controlled Environment Agri, Food Safety, Food Security, Sustainability

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Innovative Smart Agriculture

Our Mission

OVERARCHING OUTCOMES AND OBJECTIVES IN DRIVING VALUE CREATION WITHIN THE COMMUNITY

New income stream

Tangible income generating avenue for people affected by job losses at this critical stage, as well as to provide additional income for individuals arising from smart vertical farming activities

Entrepreneurship

Nurture local entrepreneurs around the country to participate in the smart farming sector in order to generate decentralised economic generation model, whilst serving local communities

Food security & safety

Cultivation of clean, fresh and traceable vegetables close to communities to address food safety and security, reduce cold-chain, build trust in farming with localized production and consumption

Business Model

Our business model consists of 3 main strategic business units (“SBU”). Each SBU is a profit center, and integrating those 3 SBUs will create tremendous synergies and value for all stakeholders.

E-Commerce, Social Media, Direct Marketing Channel, Advertising & Promotion

Vertical Farm Modules

Characteristic:

- Modular vertical farming solutions
- Modules are 6-8 Layers of racks (per deck)
- Each layer can have 54 holes
- Each layer can be configured with differing lights to support all stages and varieties of plant growth
- Modules can be stacked up to be single or double decked
- Modules can be clustered or zoned together
- Each module and/or cluster can grow specific types of vegetables or plants with differing nutrient requirement
- Covers different stages of crop development: germination, seedling, vegetative
- Integrated gravity-driven water circulation
- Supports large variety of crop cultivation

Insured by:

Allianz

Certification: (over time, est. 12 months)

GLOBALG.A.P. | USDA ORGANIC | myOrganic MALAYSIA | MALAYSIA HALAL | KEMENTERIAN KESIHATAN Food Safety GMP MALAYSIA | Food Safety Assurance System HACCP CERTIFIED Ministry of Health Malaysia | BUATAN MALAYSIA

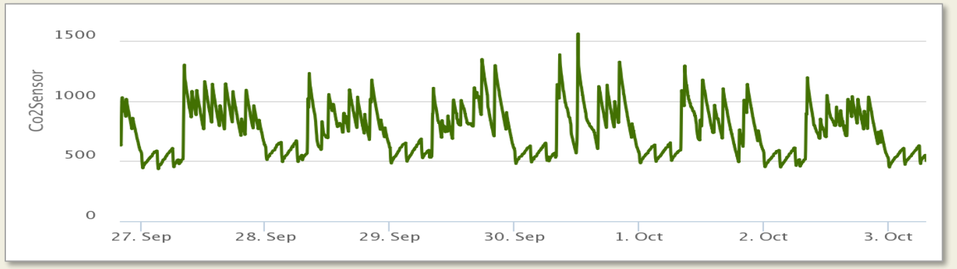
Agroz Clean, Fresh and Quality Vegetables

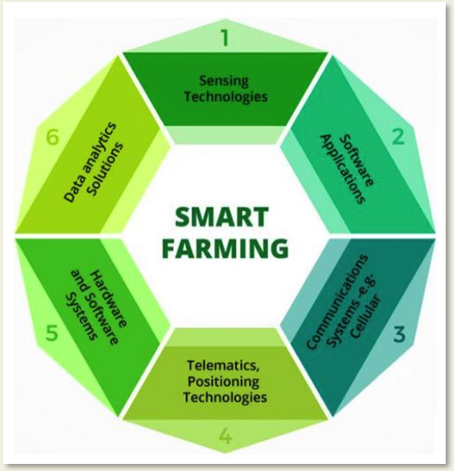
Growing Food Within the Community using IR4.0 Technologies

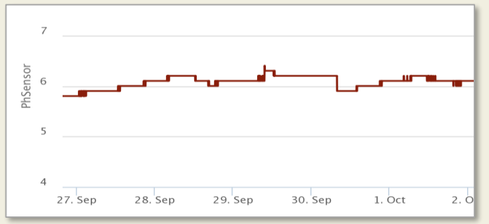
*Agroz grows **clean, fresh and happy** vegetables in our technologically advanced, precision controlled Indoor Vertical Farms located at your friendly neighbourhood.*

*The vegetables are grown in a **safe and sustainable manner** with **Non-GMO seeds** using **organic nutrients** that are free from harmful chemicals and **no pesticides**.*

*The Agroz Vertical Farms produce **sweet, crunchy, nutrient rich** vegetables that will leave a flavourful after **taste to be experienced and well remembered**.*







Benefits of the Agroz Plant Factory

Win-Win for the Community, People, Planet and Agroz

Direct from "Farm to Fork"	Reduce Distribution Complexities	Fresher and Higher Quality	Safe and Healthy	Increase Production at Lower Cost
• **Produce closer to food consumption** • Direct supply to local markets, restaurants and households • On-demand supply to reduce wastage • **Match demand and supply through subscription and contract farming**	• Reduce layers of distribution and middle men • Possibly lower cost of distribution and reduce cold-chain • Just in-time (JIT) market delivery • **Disrupt the Distribution Value Chain**	• **Fresh produce on table within hours rather than days** • Reduce or totally eliminate storage and refrigeration • Freshness you can experience • **Freshness You can See, Hear & Taste**	• **Zero harmful chemicals.** No pesticide, fungicide, herbicide • Precise use of nutrients • Minimal or zero spoilage that reduces bacterial contaminant	• Higher production per square meter compared to conventional methods • Lower energy cost • Reduce green house gas emission and minimise carbon footprint • **Good for People and Planet**

Benefits for Asset Owner

- Demonstrates asset ownes's commitment to Innovation and High Technology businesses involved with Food production
- Higher yield and potential capital gains from use of asset
- Support ESG Investment
- Create awareness & attention to the asset owner. Visitors including media, investors, leaders & dignitaries from all over the world to Asia's Largest Indoor Vertical Farm
- Increase Green Building Index (GBI) of asset owner
- Smarter utilization and occupancy of asset owner (90,000 sq ft leading to 270,000 sq ft)

From Agroz Malaysia's Freshest Vertical Farm…

Available Direct to Consumers and Businesses Online, Offline & O2O

AEON
From Mid November 2021

Lazada

Shopee

grocer

supply bunny.com

so fresh GROCERY

Lambo Place™
LamboPlace.com

e-Petani

aliments

MyLiving Selected

SUPERFINE

Milestones

Agroz Container Farm (Phase 1)

Each container produces up to 200kg of vegetables per month, equivalent to 2 - 3 acres of traditional farmland

Agroz's Produce – Fresh, Crunchy, Nutritous

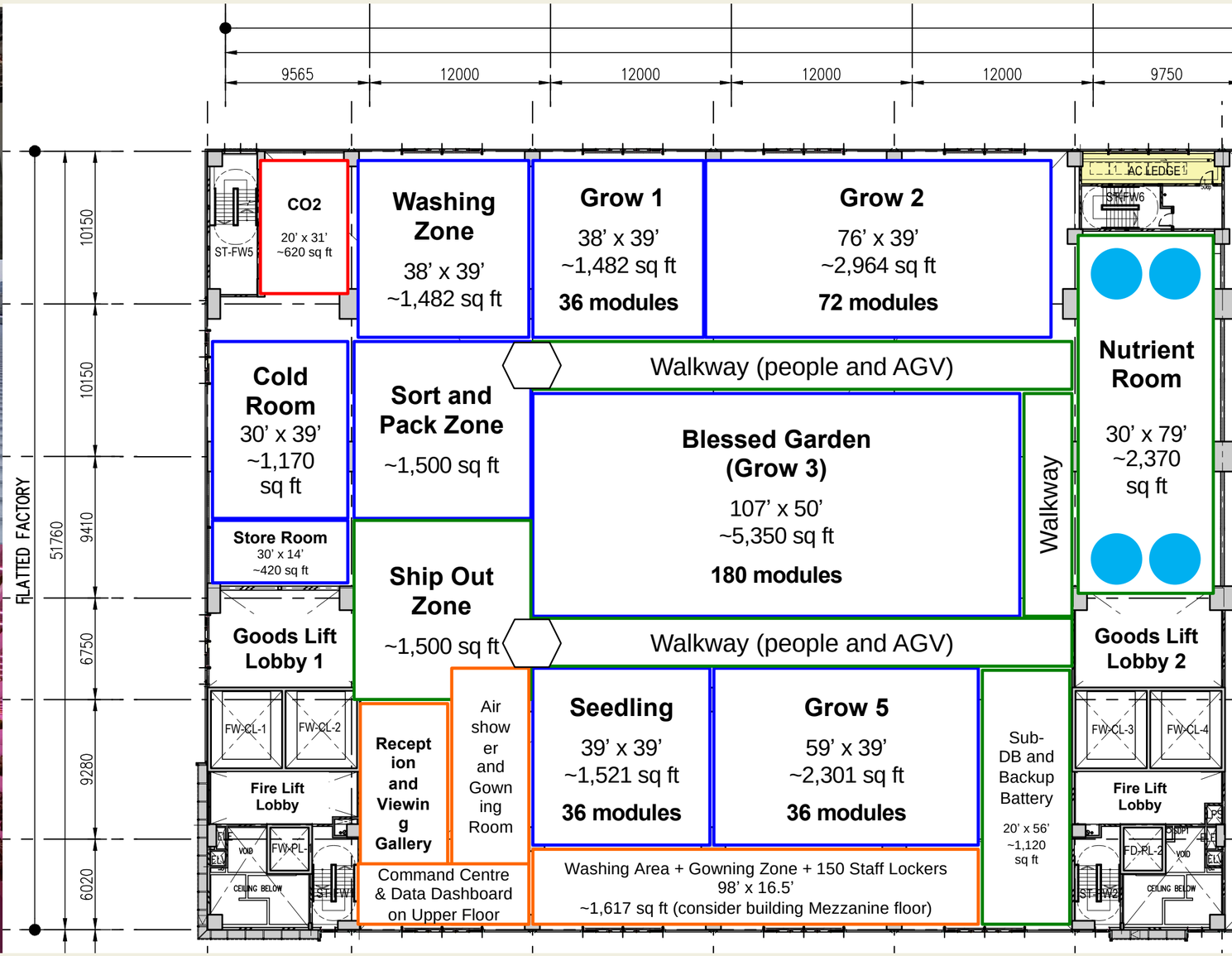
Agroz Warehouse Farm (Phase 2)

3,000 square feet @ Sungai Buloh (production: 3 tonnes per month)

September 2021

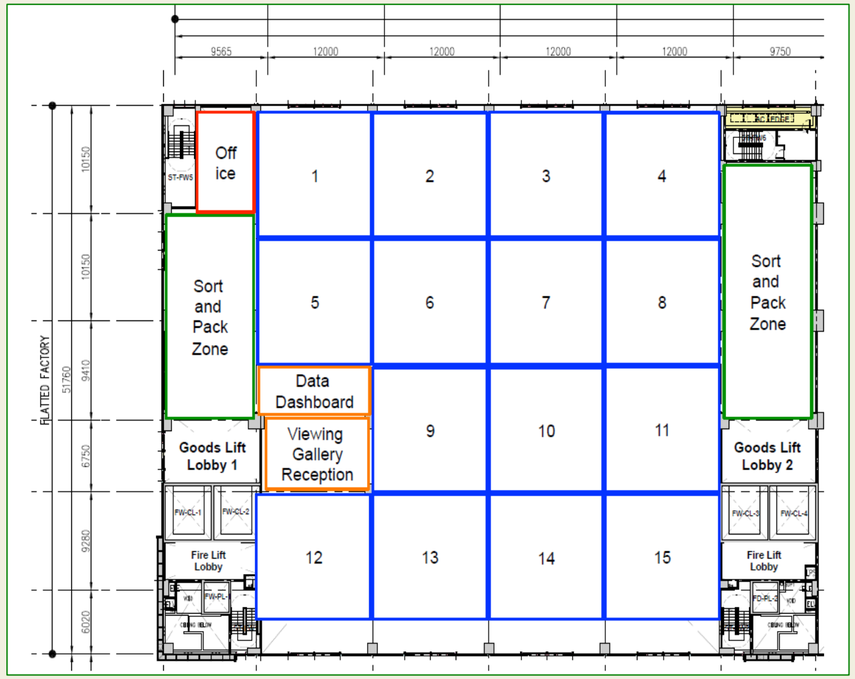
Malaysia's Largest Plant Factory

@ Hap Seng Business Park

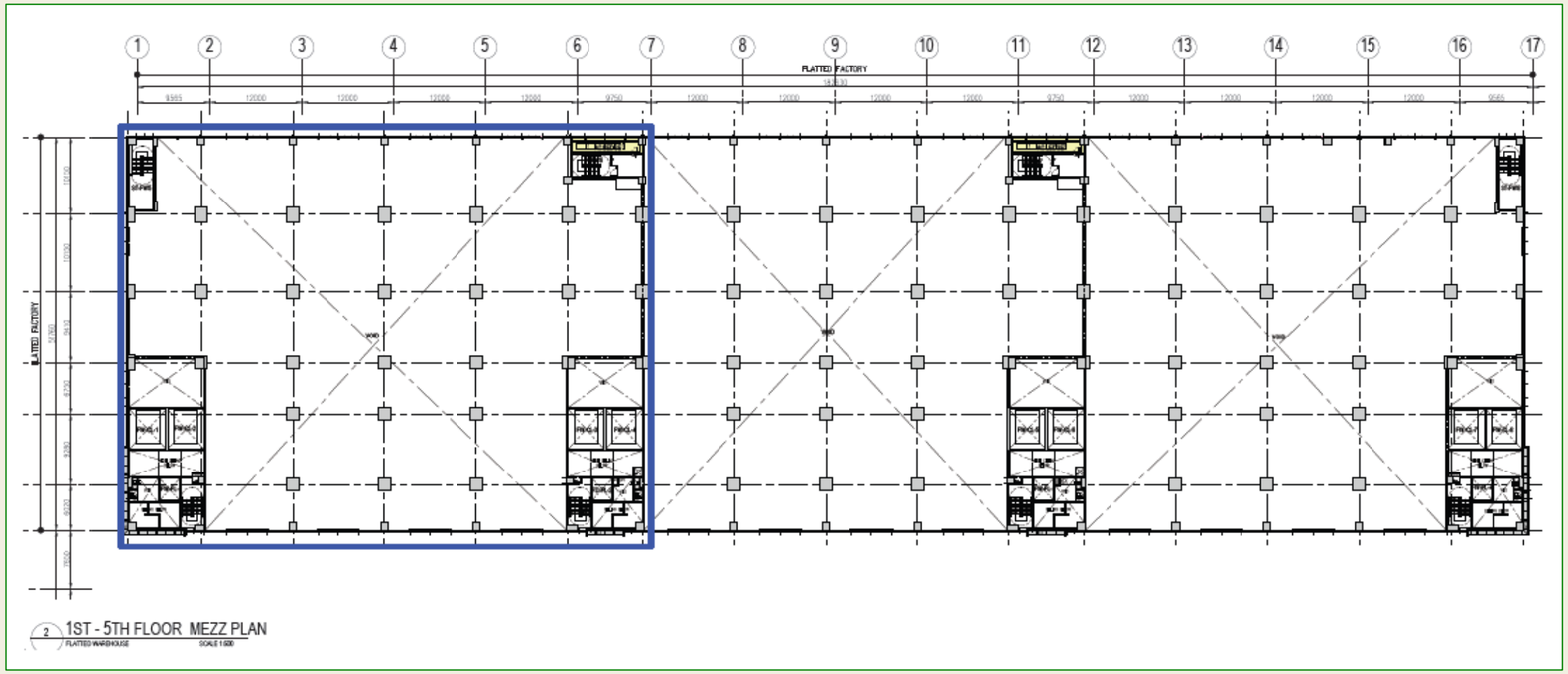


Agroz Plant Factory Design

Each 30,000 square feet produces 1 tonne per day, 30 tonnes per month



Floor Plan of the Farm (30,000 Square Feet)



Phase 1 of the Farm - 30,000 of 90,000 square feet


Q&A

Thank you for your continued support in our efforts to contribute to the SDGs.

Contact

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